

**Notice of Allowability**

Application No.

10/005,152

Applicant(s)

KWON, OH-KYONG

Examiner

DUC Q. DINH

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2674

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview on 6/605.
2. ☒ The allowed claim(s) is/are 2-16, 18-21, 23-34 are allowed and renumbered as 1-31.
3. ☒ The drawings filed on 07 December 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                       |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|   | 9. <input type="checkbox"/> Other _____.  |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Hea-Chan Park on May 26<sup>th</sup>, 2005.

2. Claim 18 has been amended as follows:

18. (Currently Amended) A method for driving an organic electroluminescent display (OLED) including a plurality of data lines, a plurality of scan lines crossing the data lines, and plurality of matrix type pixels having thin film transistors (TFTs) formed in regions defined by the data lines and the scan lines and supplying current to organic electroluminescent (EL) elements, comprising:

~~initializing the voltage supplied to the gate of the current driving TFT in response to a control signal;~~

supplying a data voltage for representing image signals to the data lines;

sequentially supplying a select signal for selecting a pixel row to the scan lines;

switching the data voltage supplied to the data lines in response to the select signal by a first switch;

initializing the data voltage supplied to the gate of a current driving TFT in response to a control signal by a second switch; and

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compensating the supplied data voltage to reduce a threshold voltage deviation of the current driving TFT; and

transmitting the compensated data voltage to a gate of the current driving TFT, and supplying the current to the organic EL element.

***Reason for Allowance***

3. Claims 2-16, 18-21, 23-34 are allowed and renumbered as 1-31.

The following is an examiner's statement of reasons for allowance: the present invention relates to driving method and a pixel circuit that can compensate for deviation of the threshold voltage of a thin film transistor (TFT) for achieving high gray scale display when driving the pixel of an organic electroluminescent (EL) display by using the TFT. The closest prior arts of Bae et al. (U. S. Patent No. 6,580,408) and Kane (U. S. Patent No. 6,229,508) disclose a similar circuit for driving for a pixel circuit of an electroluminescent display, but either singularly or in combination, fail to anticipate or render limitations:

As per claims 2 and 18:

a second switch for initializing the data voltage supplied to the gate of the first TFT in response to a control signal.

As per claim 23:

a second switch having a control terminal to which a control signal is supplied, a first terminal coupled to the drain of the second TFT, and the second terminal to which a determined voltage is supplied.

These distinct features have been added to independent claims and renders them allowable.

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4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUC Q DINH whose telephone number is (571) 272-7686. The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edouard Patrick can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUC Q DINH  
Examiner  
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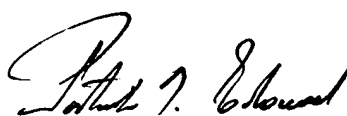
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DQD

August 8, 2005

  
PATRICK N. EDOUARD  
SUPERVISORY PATENT EXAMINER